

OMNISTAR MAXI

High-power LED floodlighting solution



LOCALLY
manufactured

OMNISTAR MAXI



IP 66

IK 08



Versatile LED floodlighting solution

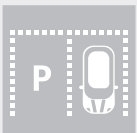
The OMNISTAR has been designed to provide an unrivalled combination of performance and flexibility for lighting areas where high lumen packages are needed while offering maximum savings in energy and maintenance costs with a short payback time. This luminaire can be installed in various applications to provide the lighting distribution and lumen package needed to meet the specifications of the area to be lit.

The OMNISTAR guarantees optimal lighting to ensure safety and comfort. It offers a real alternative to luminaires equipped with traditional sources, with the added advantages of an LED solution: low energy consumption, improved visibility with white light, limited maintenance, and longer life.

To withstand even the most corrosive environments, the luminaire housing can be especially e-coated (optional). The OMNISTAR is adaptable to all floodlighting applications to ensure maximum energy savings by adapting the light levels according to the needs.



INTERCHANGE



AREA



INDUSTRIAL
HARBOUR



HIGHMAST
LIGHTING



MANUFACTURING



FAÇADE



SIGNAGE



STADIUM



UNIVERSITY
TRACK & FIELD



MULTI-PURPOSE
HALLS

Key advantages

- Designed and manufactured in South Africa
- Designed to operate LED light sources of up to 451W in an ambient temperature (T_a) environment of up to 25°C, without reducing the useful lifetime of 100 000 hours, at a lumen depreciation of not more than 10% (L90B10)
- Cost effective and efficient lighting solution to maximise energy and maintenance cost savings in high-power applications
- ThermiX® (resists extreme temperatures: T_a up to 55°C) and IP 66 tightness level for long-lasting performance
- Instant switch on/off
- Sports applications: ball impact resistant
- Maintenance free
- Surge protection 10kV/10kA
- Available in Zone 2 and 21/22 versions
- Circular economy 3-star rating
- 5 year warranty (Terms and conditions apply)

Characteristics

GENERAL INFORMATION

Recommended installation height	8m to 40m
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262, SANS 475
Weight (kg)	Including gearbox: 25.2
Aerodynamic resistance (CxS) (m ²)	0.168

HOUSING AND FINISH

Housing	High-pressure die-cast aluminium (EN 1706 AC-47100)
Optic	Acrylic PMMA
Protector	High-impact clear glass
Housing finish	Pearl Light Grey (RAL 9022), Textured finish
Tightness level	IP 66
Impact resistance	IK 08

For options and accessories, please turn to page 8.

ELECTRICAL INFORMATION

Electrical class	EU class I
Nominal voltage	198-264V – 50Hz
Power factor	> 95% at full load
Surge protection	10kV (standard)
Electromagnetic compatibility (EMC)	SANS 55015:2013/A1:2015, SANS 61000-3-2:2014, SANS 61000-3-3:2013, SANS 61547:2009, SANS 62493:2015
Control options	1-10V DALI Schröder ITERRA Schröder EXEDRA remote management Incorporated NEMA socket assembly – 3-pin Incorporated NEMA socket assembly – 7-pin, Schröder EXEDRA ready

OPTICAL INFORMATION

LED colour temperature	4000K (Neutral white 740) 5700K (Cool white 757) (optional)
Colour rendering index (CRI)	≥ 70 (Neutral white 740) ≥ 70 (Cool white 757) (optional)
Standard optic	5188

OPERATING CONDITIONS

Operating temperature range (Ta)	-40°C up to +35°C (*)
----------------------------------	-----------------------

(*) Depending on the luminaire inclination and driving current. For more details, please contact us.

LIFETIME OF THE LEDS @ TQ 25°C

For all versions	100,000h - L90B10
------------------	-------------------

LIFETIME OF THE DRIVER @ TQ 25°C

For all versions	100,000h ≤10% failure rate
------------------	----------------------------

Optical Technology



**LENZO
FLEX® 2**

LensoFlex®2

Lenses made out of PMMA

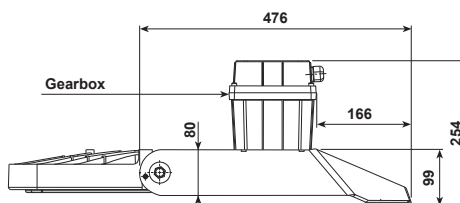
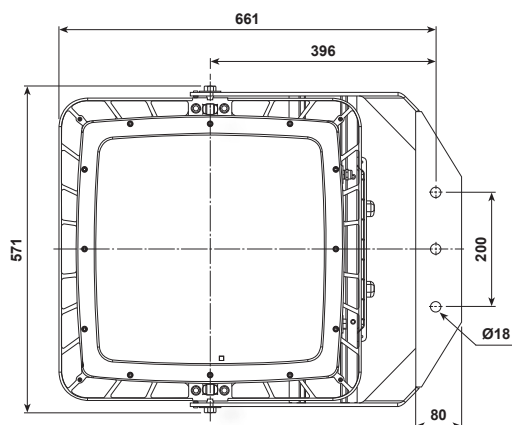


**RE
FLEXO™**

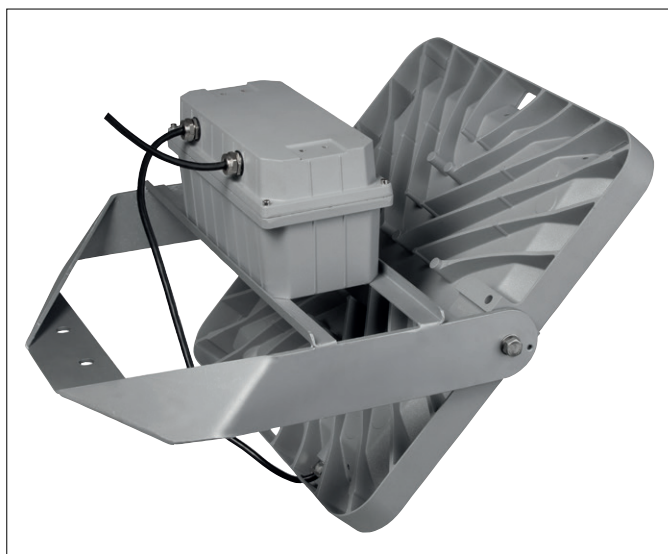
ReFlexo™

Reflectors made out of anodised aluminium with a superior reflective co-efficient

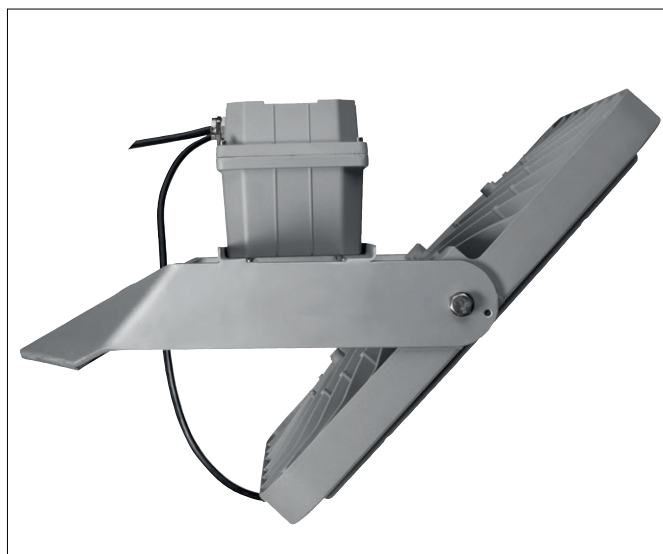
Dimensions in mm



Key Features



Optimal heat fin dissipation design and integrated gearbox



Rake angle adjustable on site



Highly efficient light distributions reduce the quantity of luminaires to be installed. Specific configurations available for Zoned applications.



Suspended version (321W version only)

Performance



				Nominal flux (lm) ^(*)	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Photometry ^(**)
Luminaire	Number of LEDs	Driver Current (mA)	Line Current (A)	Typical	Typical	Typical	Typical	Typical	
MAXI	144	700	1.4	47670	321	148	38990	121	RE FLEXO™
	144	1000	1.96	61950	451	137	50675	112	LENZO FLEX® 2

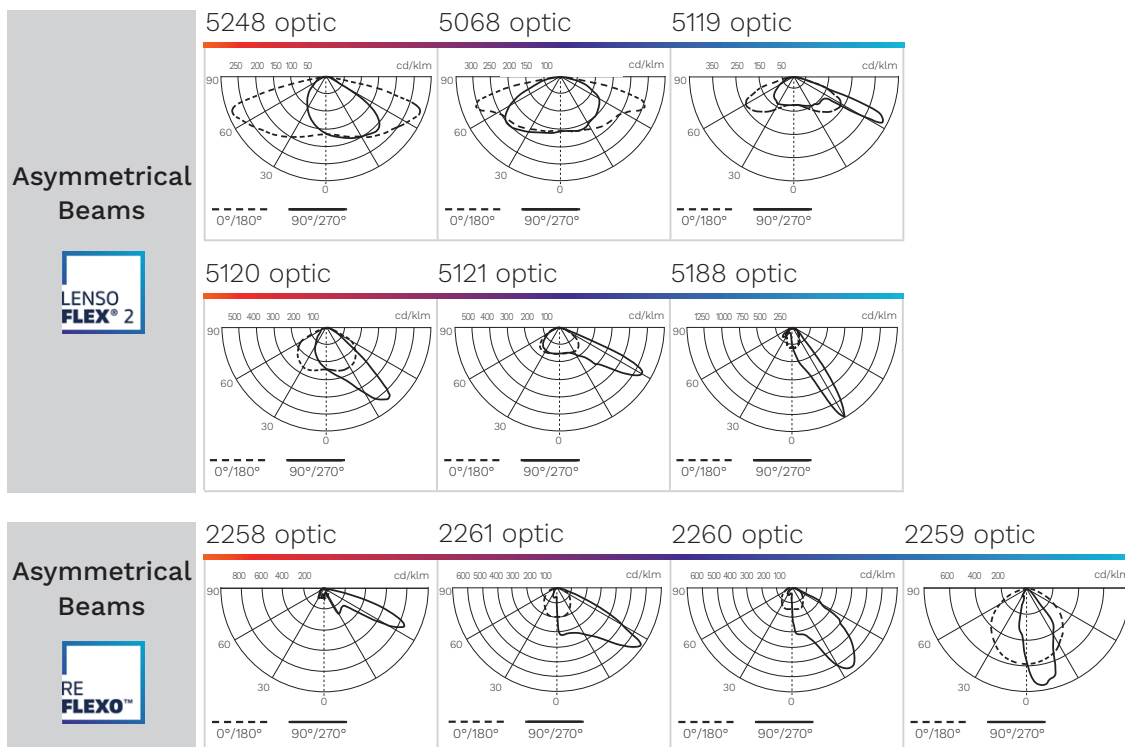
Tolerance on LED flux is $\pm 7\%$ and on total luminaire power $\pm 5\%$

^(*) The nominal flux is an indicative LED flux @ Ts 85°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

^(**) Custom combinations of lenses/optics to suit the project are available on request.

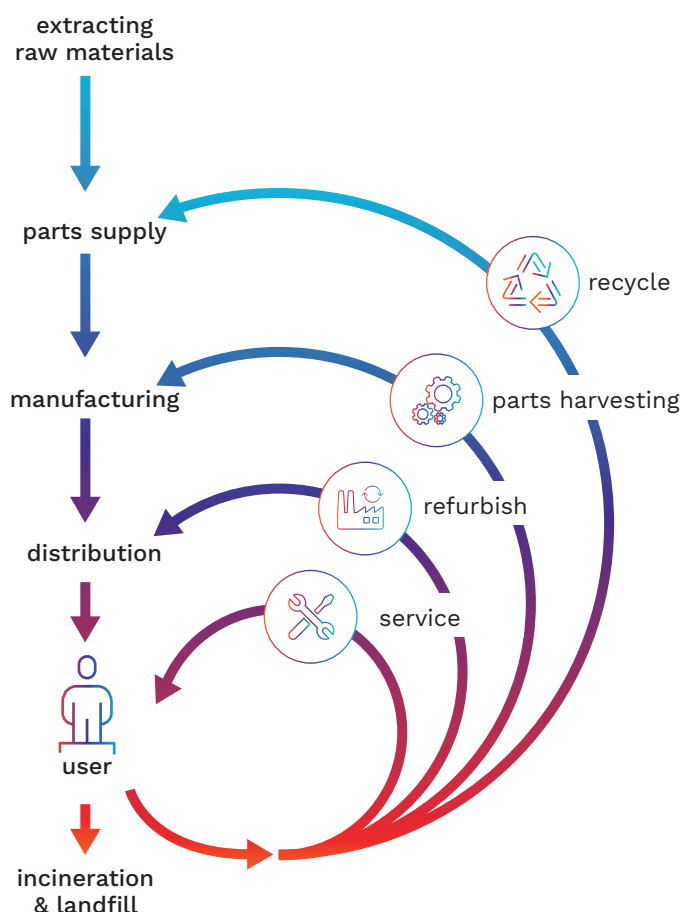
Light Distributions

Custom combinations of lenses/optics to suit the project are available on request.





Circularity concept



OMNISTAR-MAXI

Circularity focuses on reducing the environmental burden by valorising the flow of all materials.

It is mainly defined in opposition to the traditional linear economy: take, make and dispose. In a circular economy, products are part of a value network where they will be used for as long as possible.

Then, depending on their characteristics, they can be reused, refurbished, upgraded or recycled.

BEKA Schröder takes circular economy into account, right from the offset. Before we start to design our products, we incorporate it into their DNA.

After a careful analysis of the potential circularity of our luminaires, we decided to introduce a "circular lighting" product label. This label acts as a circular indicator for our customers.

It clearly designates products that are optimised for circular economy through 12 objective criteria.

Circular highlights:



- Equipped with a completely replaceable LED engine



- Materials with a high rate of recyclability

Star rating:



It was designed to be cost-efficient



It was built to last but not with circular economy requirements



It was developed to meet most of circular economy requirements



It was developed to fully meet circular economy requirements

Switching/dimming control



Schröder TERRA

Schröder TERRA provides a complete user- and installer-friendly wireless control solution for sports lighting applications.

Schröder TERRA offers site managers a robust, cost-effective and FutureProof platform to run their infrastructure with the utmost flexibility for adapting the lighting to any scenario or event while maximising energy savings and providing the best experience for players, fans and the neighbourhood.

A mobile App based system, Schröder TERRA is very easy to operate. It comes with a visual interface that users can quickly personalise to the layout and settings of their lighting installation.



Schröder EXEDRA

Schröder EXEDRA is the most advanced lighting management system on the market for controlling, monitoring and analysing streetlights in a user-friendly way.

Standardisation for interoperable ecosystems

Schröder plays a key role in driving standardisation with alliances and partners such as uCIFI, TALQ or Zhaga. Our joint commitment is to provide solutions designed for vertical and horizontal IoT integration. From the body (hardware) to the language (data model) and the intelligence (algorithms), the complete Schröder EXEDRA system relies on shared and open technologies.

Schröder EXEDRA also relies on Microsoft™ Azure for cloud services, provided with the highest levels of trust, transparency, standards conformance and regulatory compliance.

Breaking the silos

With EXEDRA, Schröder has taken a technology-agnostic approach: we rely on open standards and protocols to design an architecture able to interact seamlessly with third-party software and hardware solutions. Schröder EXEDRA is designed to unlock complete interoperability, as it offers the ability to:

- control devices (luminaires) from other brands
- manage controllers and to integrate sensors from other brands
- connect with third-party devices and platforms

A plug-and-play solution

As a gateway-less system using the cellular network, an intelligent automated commissioning process recognises, verifies and retrieves luminaire data into the user interface. The self-healing mesh between luminaire controllers enables real-time adaptive lighting to be configured directly via the user interface.

Tailored experience

Schröder EXEDRA includes all advanced features needed for smart device management, real-time and scheduled control, dynamic and automated lighting scenarios, maintenance and field

operation planning, energy consumption management and third-party connected hardware integration. It is fully configurable and includes tools for user management and multi-tenant policy that enables contractors, utilities or big cities to segregate projects.

A powerful tool for efficiency, rationalisation and decision making

Data is gold. Schröder EXEDRA brings it with all the clarity managers need to drive decisions. The platform collects massive amounts of data from end devices and, aggregates, analyses and intuitively displays them to help end-users take the right actions.

Protected on every side

Schröder EXEDRA provides state-of-the-art data security with encryption, hashing, tokenisation, and key management practices that protect data across the whole system and its associated services.



Ordering Information

Example:

OMNISTAR MA144/451N5121 S1G/SUUZ2

	ID	LED	Watt	LED Colour	Optic ⁽¹⁾	Colour	Surge Protection	Protector	Housing	Other options / accessories
OMNISTAR MA	144	321 451	N Neutral white (4000K)	2258	S Pearl Light Grey (RAL 9022), Textured finish	1 10kV 2 20kV	G Glass clear	U Gear housing - unpainted P Gear housing - painted SU Stirrup - unpainted SP Stirrup - painted HU Highbay suspended bracket - unpainted HP Highbay suspended bracket - painted	Z2 Zone 2 Z21/22 Zone 21/22	
				2259						
				2260						
				2261						
				5068						
				5119						
				5120						
				5121						
				5188						
				5248						
				s Symmetric (Suspended version only)						

⁽¹⁾ Custom combinations of lenses/optics to suit the project are available on request.

Custom Options

Switching/dimming control	DALI
	1-10V
	Integrated Schröder ITERRA
	Schröder EXEDRA remote management
	Incorporated Nema socket assembly – 3-pin
	Incorporated NEMA socket assembly – 7-pin, Schröder EXEDRA ready
Correlated colour temperature	3000K (*)
	5700K (*)
Extra treatment	e-Coating (for very harsh environments)

(*) Only for the following optics: 5068, 5119, 5120, 5121, 5188, 5248

BEKA Schröder

Experts in lightability™

SABS
ISO 9001



www.beka-schreder.co.za

Designed and manufactured by BEKA Schröder (Pty) Ltd



2023-03

Copyright © BEKA Schröder (Pty) Ltd – 13 West View Road – Olifantsfontein (South Africa) • The information, descriptions and illustrations herein are of only an indicative nature. Due to advanced developments, we may be required to alter the characteristics of our products without notice. As these may present different characteristics according to the requirements of individual countries, we invite you to consult us.